

Abstract

Semiconductor power switch and method which is suitable for producing the latter

A semiconductor power switch (1) has a source contact (2), a drain contact (3), a semiconductor structure which is provided between the source contact and the drain contact, and a gate (5) which can be used to control a current flow through the semiconductor structure between the source contact (2) and the drain contact (3). The semiconductor structure has a plurality of nanowires (4) which are connected in parallel and are arranged in such a manner that each nanowire forms an electrical connection between the source contact and the drain contact.

(Fig. 1)